

AMENDMENTS TO THE CLAIMS:

Claim 1. (Previously Presented) A stereoscopic image processing apparatus for calculating a parallax between a pair of stereographic images, comprising:

correlation evaluating means for evaluating a correlation of brightness between a first pixel block provided in one of said pair of stereographic images and a second pixel block provided in the other of said pair of stereographic images; and

region size changing means for changing a size of said first and second pixel blocks for said correlation evaluating means,

wherein a size of said first and second pixel blocks is changed in accordance with an area where said first pixel block is located in the respective pair of images.

Claim 2. (Cancelled)

Claim 3. (Previously Presented) The stereoscopic image processing apparatus according to claim 1, further comprising a boundary determining section, the boundary determining section being configured to divide the stereographic images into two areas, an upper area and a lower area, defined by a horizontal boundary line.

Claim 4. (Previously Presented) The stereoscopic image processing apparatus according to claim 3, wherein the region size changing means changes said size of said first and second pixel blocks to a first size when said first pixel block is located in said lower area.

Claim 5. (Previously Presented) The stereoscopic image processing apparatus according

to claim 1, wherein said area of the stereographic images is divided into a plurality of areas and a size of said first and second pixel blocks is changed to a respective specified size of said first pixel block in accordance with said respective areas where said first pixel block is located.

Claim 6. (Currently Amended) The stereoscopic image processing apparatus according to claim 1, wherein said first and second pixel blocks have a first size and a second size, respectively, the second size being larger than said first size.

Claim 7. (Currently Amended) The stereoscopic image processing apparatus according to claim 1, wherein the region size changing means changes said size of said first and second pixel blocks ~~is changed in~~ accordance with imaging conditions, the imaging conditions including rain, fog, snow, backlight, nighttime, snow on road, stain or droplet on front windshield.

Claim 8. (Currently Amended) A stereoscopic image processing apparatus for calculating a parallax between a pair of images, comprising:

correlation evaluating means for evaluating a correlation of brightness between a first pixel block provided in one of said pair of images and a second pixel block provided in the other of said pair of images;

weighting factor means for applying a weighting ~~[[a]]~~ factor to each ~~[[of]]~~ pixel constituting said first and second pixel blocks in evaluating said correlation; and

weighting factor changing means for changing said weighting factor for said correlation evaluating means, wherein:

the ~~weight-weighting~~ factor is established to ~~[[0]]~~ ZERO at a surrounding region away from a central region of the first and second pixel blocks to reduce ~~[[the]]~~ a size of the first and second pixel blocks in a small pixel block comparison, and

the ~~weight-weighting~~ factor is established to ONE at ~~[[1]]~~ the surrounding region away from the central region of the first and second pixel blocks, to increase the size of the first and second pixel blocks in a larger pixel block comparison.

Claim 9. (Cancelled)

Claim 10. (Currently Amended) A stereoscopic image processing method of calculating a parallax between a pair of stereographic images in a stereoscopic image processing apparatus, the method comprising:

evaluating a correlation of brightness between a first pixel block provided in one of said pair of stereographic images and a second pixel block provided in the other of said pair of stereographic images; and

changing a size of said first and second pixel blocks,

wherein the changing of the size of the first and second pixel blocks includes changing the pixel blocks in accordance with an area where the first pixel block is located.

Claim 11. (cancelled)

Claim 12. (Previously Presented) The method according to claim 10 further comprising dividing said area into two areas, an upper area and a lower area, by a horizontal boundary line.

Claim 13. (Previously Presented) The method according to claim 10, further comprising dividing said area into a plurality of areas by a plurality of boundary lines.

Claims 14. (Currently Amended) A stereoscopic image processing method of calculating a parallax between a pair of images in a stereoscopic image processing apparatus, the method comprising:

evaluating a correlation of brightness between a first pixel block provided in one of said pair of images and a second pixel block provided in the other of said pair of images;

dividing each of said pair of images ~~said area~~ into two areas, an upper area and a lower area, by a horizontal boundary line;

applying a weighting [[a]] factor to each [[of]] pixel constituting said first and second pixel blocks for said [[in]] evaluating said correlation based on whether each said pixel is in the upper area or in the lower area; and

changing over said weighting factor for evaluating said correlation.

Claim 15. (Currently Amended) The apparatus of claim 1, further comprising a parallax calculating means for calculating [[the]] a parallax between the pair of images based upon the correlation of brightness.

Claim 16. (Previously Presented) The apparatus of claim 1, wherein the region size changing means changes a size of the first and second pixel blocks based upon the location of one of the first and second pixel blocks within a corresponding one of the pair of images.

Claim 17. (Previously Presented) The apparatus of claim 16, wherein the region size changing means changes a size of the first and second pixel blocks based upon the location of one of the first and second pixel blocks within a corresponding one of the pair of images with respect to a horizontal line in said corresponding one of the pair of images.

Claim 18. (Previously Presented) The apparatus of claim 17, wherein the region size changing means changes a size of the first and second pixel blocks such that said size of said first and second pixel blocks is larger above the horizontal line and smaller below the horizontal line.

Claim 19. (Currently Amended) The apparatus of claim 18, wherein the first pixel block and the second pixel block comprise an 8X8 pixel block above the horizontal line and the first pixel block and the second pixel block comprise a 4X4 pixel block below the horizontal line.

20. (New) The apparatus of claim 1, wherein the region size changing means changes a size of the first and second pixel blocks based on whether an object in an image is projected in a manner opposed to a plane of the image or is projected obliquely to the image plane.

21. (New) The apparatus of claim 1, further comprising weighting factor means for applying a weighting factor to each pixel constituting said first and second pixel blocks.

22. (New) The method of claim 10, further comprising applying a weighting factor to each pixel in said first and second pixel blocks.